



Immigration, Refugees
and Citizenship Canada

Immigration, Réfugiés
et Citoyenneté Canada

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MEMORANDUM TO THE DEPUTY MINISTER AND THE ASSOCIATE DEPUTY MINISTER

GOVERNMENT OF CANADA DATA CONFERENCE 2021:
AN INTEGRATED DATA COMMUNITY FOR BUILDING BACK BETTER

FOR INFORMATION

SUMMARY

- The purpose of this memorandum is to provide you with an update on the of the fifth annual Government of Canada (GC) Data Conference titled *An Integrated Data Community for Building Back Better*. The conference consists of two component parts, the main conference, which is being organized jointly with the Canada School of Public Service (CSPS) and IRCC on February 18-19, 2021 and the Data Literacy Fest on February 22 and 23 which is being coordinated by IRCC and hosted by numerous federal organizations.
- For the main conference, IRCC is responsible for the content development while CSPS is focusing on web platforms and event management. For the Data Literacy Fest, IRCC is responsible for both content and the event management, in collaboration with other government departments.
- The content of the main conference is reflective of extensive inter and intra departmental consultations including a cross-government survey, the inter and intra departmental conference advisory committees and presentations to key committees.
- The conference will be opened by departmental co-hosts, IRCC Deputy Minister and President of the CSPS and feature opening remarks by the Clerk of the Privy Council Office. The speakers include executives, experts, data practitioners and users from the governmental organizations and international, provincial, academic, and non-profit partners and stakeholders.

BACKGROUND:

- The annual GC data conference that CSPS co-organizes with a different department each year is a key vehicle to advance data innovation, literacy, governance and learning across the

Canada

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government. With growing success each year, annual GC data conferences have become marquee events bringing government data community together.

- The increasing momentum of the implementation of departmental data strategies since the launch of the *Privy Council Office Data Strategy Roadmap for Federal Public Service* two years ago, and the challenges and lessons of COVID-19 crisis, have brought data as a strategic asset into focus across government organizations.
- Hosting the Data Conference 2021 is a key activity for implementing the IRCC Data Strategy, presenting a significant opportunity for IRCC to rally government organizations to augment the capacity and skills of data practitioners and users to carry out their roles in governing, managing, and using data responsibly.

CURRENT STATUS:

- Data Conference 2021: An Integrated Data Community for Building Back Better will promote a forward-looking, open and horizontal approach to connect data communities, and facilitate conversations on the role of data for responsive policy and effective program delivery. The conference will focus on the opportunities and challenges that the pandemic recovery period presents to engender a more inclusive approach to data across all levels of government.
- In Fall 2020, IRCC developed the program contents of the Conference through a range of consultation initiatives including:
 - Gathering feedback through inter-departmental engagement sessions with more than 350 data practitioners in 25 government departments and agencies, including the Chief Data Officer Council;
 - Conducting a government-wide survey with more than 600 respondents from 70 departments and agencies to identify key themes and topic of interest;
 - Securing key input and feedback to program contents from 20 departments and agencies and all Sectors within IRCC through inter and intra departmental advisory committees; and
 - Engaging one-on-one with Statistics Canada, Treasury Board Secretariat and Privy Council Office to receive input to program contents.
- The finalized agenda of the Conference has over 80 confirmed speakers, from government departments and agencies, provinces, universities, non-profits and businesses (see **Annex** for Conference Agenda – Full Program). Conference speakers represent a broad diversity, with a gender composition of over 40 percent female.
- The overall content and scenario line of the Conference include:
 - Indigenous welcome and welcoming remarks by departmental co-hosts, followed by opening remarks of the Clerk;
 - Three plenaries over the two days of the main conference, the first on the role of data for responsive public policy; the second on data journalism for enhancing the accessibility of data for public discussion and policy development directed to vulnerable populations; and the third on data literacy for all;

- Two fireside chats, one on each day of the main conference. The first focuses on the public value of data for inclusive policy and program delivery, and the second on bridging the digital, information management and data worlds in a conversation with Chief Data Officers and Chief Information Officers across government;
- Concurrent sessions consisting of panel presentations and discussions in three identified streams (i.e. data governance; leveraging data assets; data development, use and mobilization);
- Interactive workshops in the Data Literacy Fest section of the Conference will showcase and share data initiatives and tools to develop data literacy skills of participants;
- Virtual kiosks from 12 departments, including IRCC kiosk, during the Conference will showcase data products of each government institution.

COMMUNICATIONS IMPLICATION:

- CSPPS will take the lead on external communication of the conference, as their reach encompasses the intended audience of the Conference. IRCC's communications team will play a supporting role, by promoting the Conference internally (on Today@), and by reviewing content and providing strategic advice to the Research & Evaluation team.
- As the Conference aimed at public servants and academics, it is unlikely to garner much media attention. Therefore, a responsive approach to communications is recommended.

NEXT STEPS:

- IRCC and CSPPS will hold briefing calls with the speakers and moderators of each session to test the technical platforms and discuss the scope and focus of each session.
- Representatives of intra-departmental and inter-departmental advisory committees will be provided promotional material to distribute within their networks and among their stakeholders.
- The full conference agenda, including the streams, topics, titles and speaker bios for the plenaries, fireside chats, and concurrent panels of the main Conference and the interactive workshops of the Data Literacy Fest will be disseminated through all channels including Conference website and Data Conference 2021 GCcollab group.

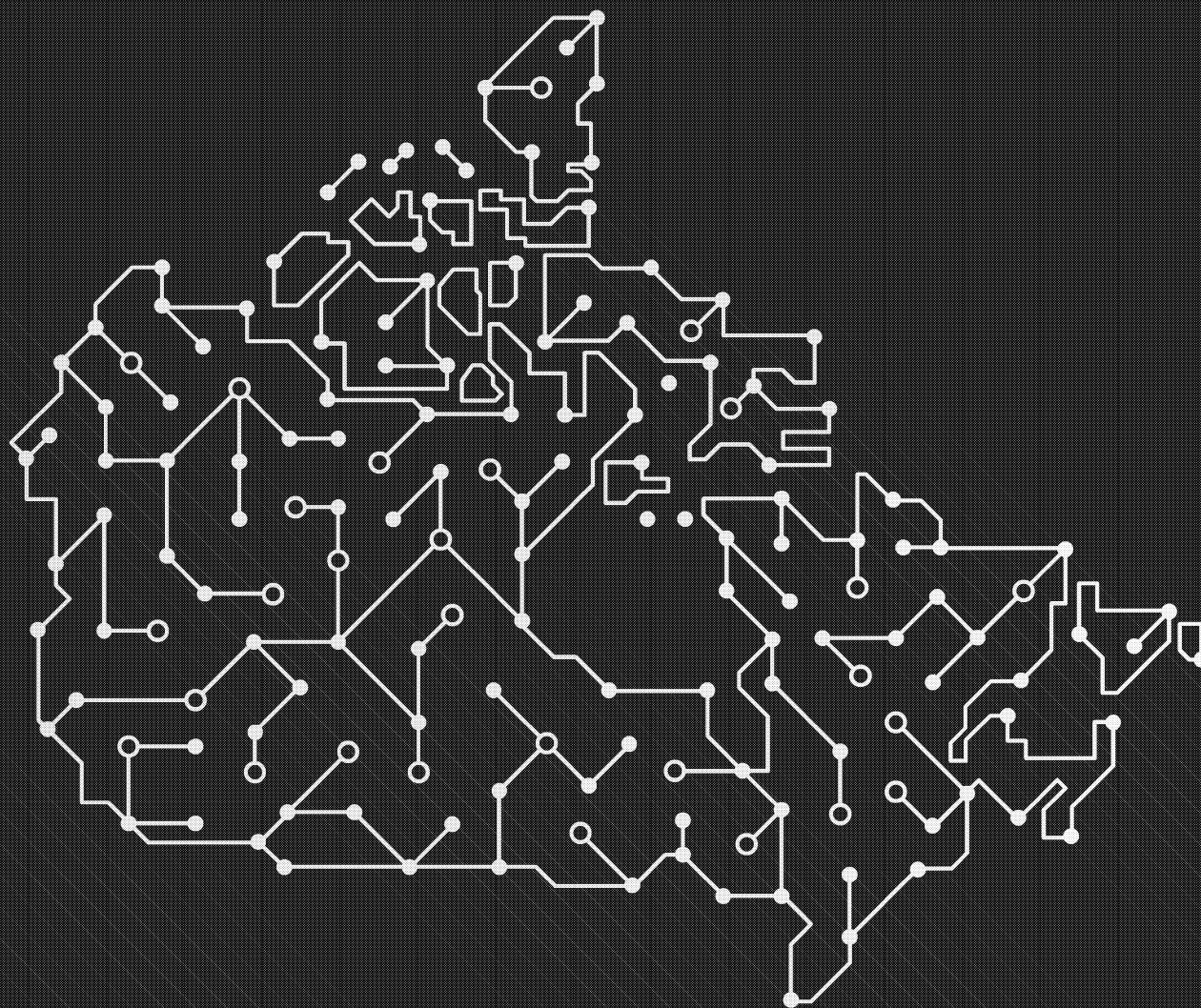
A speech, for your opening remarks, is being developed and will be pre-recorded the week of February 8th to facilitate the virtual format of the conference

Natasha Kim

Annex: Conference Agenda – Full Program

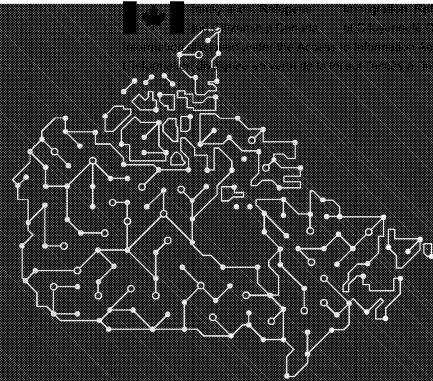
DATA CONFERENCE 2021

AN INTEGRATED DATA COMMUNITY FOR BUILDING BACK BETTER



DATA CONFERENCE 2021

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**DATA CONFERENCE 2021 is co-hosted by
Canada School of Public Service and Immigration, Refugees and Citizenship Canada**

The Main Conference is taking place on February 18-19, 2021

Followed by Data Literacy Fest, February 22-23, 2021

We invite you to enter the Data Conference 2021 through the virtual exposition,
found here: <https://expo.da-an.ca/#/2102>

Visit [Data Conference 2021 webpage](#)

For more information, join [Data Conference 2021 GCcollab group](#)

For questions or comments, contact the [Data Conference 2021 Team](#)

Data Conference 2021 – Thursday, February 18, from 11:00 am to 4:35 pm ET

11:00 am – 11:05 am Webcast link	Welcoming Remarks by Masters of Ceremonies Enrico del Castello , Director, Immigration, Refugees and Citizenship Canada Liz McKeown , Faculty member, Digital Academy, Canada School of Public Service
11:05 am – 11:15 am Webcast link	Indigenous welcome Gilbert Whiteduck , Former Kitigan Zibi Anishinabeg Chief
11:15 am – 11:30 am Webcast link	Welcome by Departmental co-hosts Catrina Tapley , Deputy Minister, Immigration, Refugees and Citizenship Canada Taki Sarantakis , President, Canada School of Public Service
11:30 am – 11:45 am Webcast link	Opening remarks Anil Arora , Chief Statistician of Canada, Statistics Canada
PLENARY DISCUSSION	
11:45 am – 1:00 pm Webcast link	Data for Responsive Public Policy The opening plenary brings together speakers from across the federal government and provincial institutes to discuss how data are used in response to emergent public policy needs. The plenary will focus on overcoming data challenges in high impact areas for policy and program action related to socio-economic and health inequities. Key themes of discussion will include how better data augment the crisis management strategies of government organizations, enhance the value of data innovations and nurture best practices for more inclusive outcomes and effective results. André Loranger , Assistant Chief Statistician, Statistics Canada Ima Okonny , Chief Data Officer, Employment and Social Development Canada Mireille Laroche , Chief Data Officer, Canada Revenue Agency Astrid Guttmann , Chief Science Officer, ICES, Ontario Moderated by: Kara Beckles , Director General, Privy Council Office

1:00 pm – 1:15 pm	Health break
FIRESIDE CHAT	
1:15 pm – 2:15 pm Webcast link	<p>The Value of Data for an Innovative and Inclusive Public Policy</p> <p>The fireside chat will provide an opportunity to hear leading practitioners of the Canadian data landscape reflect on how good data support the path toward recovery. Focal points of the conversation are on the data needs to address the structural issues of equity, sustainability and inclusion, and how better data governance and data quality supports innovative initiatives for public good by connecting challenging policy questions with data infrastructures, expertise and analytics needed to address them.</p> <p>Rohinton Medhora, President, Centre for International Governance Innovation Anil Arora, Chief Statistician of Canada, Statistics Canada Vik Pant, Chief Scientist and Chief Science Advisor, Natural Resources Canada Moderated by: Natasha Kim, Associate Assistant Deputy Minister, Immigration, Refugees and Citizenship Canada</p>
2:15 pm – 3:15 pm	CONCURRENT BREAKOUT SESSIONS
STREAM 1: DATA GOVERNANCE Webcast link	<p>Theme: Data Strategy</p> <p>Implementation of Data Strategies across the Government</p> <p>This session brings together federal departments and agencies for a conversation on the implementation phases of their respective data strategies. The session focuses on key lessons learned in the governance, management and use of data while implementing departmental strategies aligned with the Data Strategy Roadmap for the Federal Public Service issued in November 2018.</p> <p>Jamie Smith, Chief Data Officer, Environment and Climate Change Canada Tom Dufour, Director General, Statistics Canada Daniel MacDonald, Director General, Natural Resources Canada Julie McAuley, Chief Results and Delivery Officer, Innovation, Science and Economic Development Canada Moderated by: Alain Beaudoin, Assistant Secretary to the Cabinet, Privy Council Office</p>
STREAM 2: LEVERAGING DATA ASSETS Webcast link Wordly: simultaneous translation in French utility (Beta) Proceed to the site https://attend.wordly.ai/join/PCZT-0294	<p>Theme: Data For Policy, Research And Service</p> <p>Spotlight on the Canadian Statistics Advisory Council 2020 Annual Report: Towards a Stronger National Statistical System</p> <p>The Canadian Statistics Advisory Council (CSAC), an independent advisory body put in place by the government in late 2017 to improve the quality of Canada's national statistics system, issued their first report in October 2020. In this panel, Council members discuss the objectives and findings of their report, and invite input from the audience. The discussion will highlight the recommendations of the Council to overcome the challenges regarding the collection, accessibility and use of detailed statistics. A key theme in the conversation will be the socio-economic and health data gaps that impede decision-making, particularly regarding racialized groups and Indigenous Peoples, and the need for a more integrated data ecosystem.</p> <p>Gail McDonald, Former Executive Director of First Nations Information Governance Centre and CSAC Member Howard Ramos, Chair of CSAC Board and Professor, Western University Jan Kestle, President and CEO, Environics and CSAC Member Moderated by: Céline Le Bourdais, Professor, McGill University and CSAC Member</p>

<p>STREAM 3:</p> <p>DATA DEVELOPMENT AND USE</p> <p>Webcast link</p> <p>Wordly: simultaneous translation in French utility (Beta)</p> <p>Proceed to the site https://attend.wordly.ai/join/QXHB-4031</p>	<p>Theme: Cyber Security</p> <p>Data Defense in Support of Government of Canada COVID-19 Response Communications Security Establishment's Canadian Center for Cyber Security (CCCS) plays a key role in the defense of the Government of Canada's infrastructure, systems, and data assets. This session brings together a panel of CCCS experts to discuss how data security and data defense contribute to the security of the government's response to COVID-19. The protection of Canadian vaccine research efforts, as well as the security of the COVID-19 tracking application will be some of the focal points of the discussion.</p> <p>Jean-Philippe Racicot, Supervisor, Strategic Cyber Threat Assessment Eric Bisailon, Director, Security Architecture Lindsay MacDonald, Sector Lead, Health and Academia Sectors, Partnerships Moderated by: Don MacLeod, Director, Autonomous Defense and Sensors</p>
<p>3:15 pm – 3:30 pm</p>	<p>Health break</p>
<p>3:30 pm – 4:30 pm CONCURRENT BREAKOUT SESSIONS</p>	
<p>STREAM 1:</p> <p>DATA GOVERNANCE</p> <p>Webcast link</p> <p>Login to Woodclap.com Enter the code: DATA1801</p>	<p>Theme: Data Quality and Data Stewardship</p> <p>Ensuring Data Quality through Data Stewardship Foundational pieces in the operationalization of data strategies across the Government of Canada include frameworks to advance data quality and ways of formalizing the role of data stewards. How can networks of data stewards better support data quality work at the enterprise level? What are some of the lessons learned in the assignment of department-wide roles and responsibilities regarding data quality? This session will focus on the experience of data governance journeys and discuss approaches to reporting and decision-making as organizations develop tools to support data stewards in their efforts to improve data quality.</p> <p>Lauren Aldwinckle, Senior Analyst, Fisheries and Oceans Canada Anton Bazilev, Manager and Jane Lin, Data Governance Analyst, Department of National Defense Crystal Sowards, Manager, Office of Chief Data Officer, Statistics Canada Moderated by: Sébastien Fleurant, Director, Immigration Refugees and Citizenship Canada</p>
<p>STREAM 2:</p> <p>LEVERAGING DATA ASSETS</p> <p>Webcast link</p>	<p>Theme: Data Ethics And Artificial Intelligence</p> <p>Data Ethics and AI Innovation What are some of the legal, methodological, program/policy and service delivery perspectives that shed light on the ethical issues in the use and management of data? This panel will delineate the ethical principles in the design, functionality and use of data in AI innovation. Participants will address the balance between innovation and ethical use of emerging technologies in AI by reflecting on the experience of automated processes in government programs and services.</p> <p>Benoit Deshaies, A/Director, Treasury Board of Canada Secretariat Eric Rancourt, Director General, Statistics Canada Michelle Mann, General Counsel, Justice Canada and Patrick McEvenue, Senior Director, Immigration, Refugees and Citizenship Canada Moderated by: Maryam Haghighi, Director, Bank of Canada</p>

STREAM 3: DATA DEVELOPMENT AND USE Webcast link Login to Wooclap.com Enter the code: DATA1803	Theme: Data Science Applications Assessing Input Data and Resultant Model Accuracy The presentations in this panel address how to assess input data and communicate resultant model accuracy to clients and partners. Learn how data scientists are putting theory into practice when assessing data for projects and how they work with clients to achieve the desired output quality. Saeid Molladavoudi , Lead Data Scientist , Statistics Canada Stéphane Tremblay , Team Lead, National Research Council Canada Yvan Gauthier , Team Lead, Department of National Defence Moderated by: Monica Pickard , Section Chief, Statistics Canada
4:30 pm – 4:35 pm Webcast link	Closing Remarks for Day 1 by the Masters of Ceremonies

DATA CONFERENCE 2021 – Friday, February 19, 2021 from 11:00 am to 4:35 pm ET

11:00 am – 11:15 am Webcast link	Welcoming Remarks by the Masters of Ceremonies
PLENARY DISCUSSION	
11:15 am – 12:30 pm Webcast link	Data Journalism: Truth Telling with Data Analysis and Visualizations for Public Interest The second plenary of the Conference brings together data journalists and experts using a variety of data analysis and representation techniques for journalistic investigation and for communicating the uncovered stories to the public. The plenary will focus on the role of data journalism to enhance the evidence base for trusted insight and effective policy-making, and to advance the public conversation in support of inclusive and equitable outcomes. The discussion topics include: techniques to gather and analyze data for investigative journalism; the democratization of data for a new generation of journalists; community-based data literacy projects to address sustainable development goals in Africa; feminist approaches to address data gaps for inclusive social outcomes. Tom Cardoso , Data Journalist, Globe and Mail David McKie , Deputy Managing Editor, National Observer Jacopo Ottaviani , Chief Data Officer, Code for Africa Lauren Klein , Associate Professor, Emory University, co-author of Data Feminism (2020, MIT Press) Moderated by: Caroline Xavier , Associate Deputy Minister, Immigration Refugees and Citizenship Canada
12:30 pm – 1:00 pm	Health break

FIRESIDE CHAT

1:00 pm – 2:00 pm

[Webcast link](#)

Joys of Joining up: Bridging the Digital, Information Management and Data Worlds

The fireside chat of the second day of the Conference brings together Chief Data Officers (CDOs) and Chief Information Officers (CIOs) from across the federal government for a conversation on developing a joined-up approach to governance and the management of data and information. The conversation will address key challenges and opportunities to effectively bridge the scope, roles and responsibilities of CDOs and CIOs in the context of relevant Treasury Board policies, digital government, and the Data Strategy Roadmap for the Federal Public Service.

Stephen Burt, Chair of CDO Council; Assistant Deputy Minister, Department of National Defence

Sandy Kyriakatos, Chief Data Officer, Canadian Border Services Agency

Zaina Sovani, Assistant Deputy Minister and Chief Information Officer, Immigration, Refugees and Citizenship Canada

Moderated by: Marc Brouillard, A/Chief Information Officer of Canada, Treasury Board of Canada Secretariat

2:00 pm – 3:00 pm

CONCURRENT BREAKOUT SESSIONS

STREAM 1:

DATA GOVERNANCE

[Webcast link](#)

Login to
Woodclap.com
Enter the code:
DATA1901

Theme: Data Standards And Metadata

Standards in Action: Emergence of Data Standards to Drive Business Outcomes

The panel discussion will explore the value and how to boost the adoption of common data standards across government. Common data standards support the interoperability and the data exchange required both to improve analysis and policymaking, and to hasten progress towards truly digital, user-focused service delivery. Topics include discussion on the business value of standards; how best to develop and introduce standards; how to encourage take-up among departments and agencies; and how to allocate responsibilities for driving and monitoring adoption.

David Barraclough, Manager, Organisation of Economic Co-operation and Development (OECD)

Benjamin Williams, Director, Canadian Mortgage and Housing Corporation

Meline Nearing-Hunter, Director and **Benoit Deshaies**, A/Director, Treasury Board of Canada Secretariat

Daniel Gillman, Senior Research Scientist, US Bureau of Labor Statistics

Moderated by: Cory Chobanik, Director, Statistics Canada

STREAM 2:

LEVERAGING DATA ASSETS

[Webcast link](#)

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translation in French
utility (Beta)

Proceed
to the site
<https://attend.word-ly.ai/join/LYSD-1544>

Theme: Open Data

International Lens: How Open Data is Helping to Solve COVID-19

Whether to track cases, find cures or accelerate vaccine rollout, the pandemic brought to the forefront the acute need for open data. This panel will bring world-renowned open data experts who will share lessons learned and best practices to help improve the release of COVID-19 data. The conversation will aim to raise the awareness of data practitioners around good data governance principles such as data leadership, trust, transparency, standards, collaboration and equity. The discussion will also touch on Government of Canada initiatives that led to the release of more open data and information related to COVID-19.

Barbara Ubaldi, Deputy Head, Open and Innovative Government Division, Organisation of Economic Co-operation and Development (OECD)

Natalia Carfi, Deputy Director, Open Data Charter

Nigel Jacob, Co-founder, Mayor's Office of New Urban Mechanics, City of Boston

Moderated by: Melanie Robert, Executive Director, Open Government, Treasury Board of Canada Secretariat

STREAM 3: DATA DEVELOPMENT AND USE <u>Webcast link</u> Wordly: simultaneous translation in French utility (Beta) Proceed to the site https://attend.wordly.ai/join/ETDK-0927	Theme: Data Use for Results and Delivery Data Partnerships and Infrastructures for Responsive Public Policy – Case Studies What are some of the prominent examples of foundational resources provided by data partnerships and data networks that are leveraged in response to emergent public policy needs? Join this panel discussion to learn more about use cases for building data products and infrastructures in high impact areas for policy and program implementation. Case studies in focus include the development of benefit knowledge hub for the sharing and analysis of Canada Emergency Response Benefit data; data visualization products for federal, provincial and territorial users to inform the deployment and demand of Personal Protective Equipment in the provinces; and establishing data infrastructures for developing and sharing multi-province health data. Donna Curtis Maillet , Professor, Health Data Research Network and University of New Brunswick Gillian Dawson , Director, Health Canada Vedmani Sharan , Policy Analyst, Employment and Social Development Canada Moderated by: Gabrielle Fitzgerald , Director, Infrastructure Canada
3:00 pm – 3:15 pm	Health break
PLENARY DISCUSSION	
3:15 pm – 4:30 pm <u>Webcast link</u> Login to Wooclap.com Enter the code: DATADIS	Data Literacy Matters The third and concluding plenary of the Conference will feature unique perspectives on data literacy for those who manage, analyze and use data and data products to participate more actively in the data landscape. Conversation themes will include: approaches to measure, map and develop data literacy across organisations; current initiatives to support data literacy training and upskilling in the Government of Canada; data literacy as a cluster of essential competencies needed for the appreciation of the full value of administrative data beyond its immediate operational use, including its value for transparent government and its impact on public policy and the public good; data literacy demands on the public service and the range of learning opportunities and innovative solutions for core government functions in areas of digital enablement, accessibility and data sharing. Jane Crofts , Founder and CEO, Data to the People Yvan Clermont , Director General, Statistics Canada Ümit Kiziltan , Chief Data Officer, Immigration, Refugees and Citizenship Canada Taki Sarantakis , President, Canada School of Public Service Moderated by: Neil Bouwer , Vice-President, Canada School of Public Service
4:30 pm – 4:35 pm	Closing Remarks for Day 2 by Co-Hosts

DATA CONFERENCE 2021 – Data Literacy Fest – February 22-23, 2021
Hosted by CBSA, CSPS, ESDC, GAC, IRCC, NRCAN, PCO, PHAC, STC, TBS, TC
 For more information, join the [Data Conference 2021 GCcollab group](#)

Monday, February 22, from 9:00 am to 5:00 pm ET

Welcoming Remarks
Sebastien Fleurant, Director, Immigration, Refugees and Citizenship Canada

CONCURRENT WORKSHOPS

9:00 am – 10:15 am	Room A Webcast access Sli.do event code: NRCan1	Building a Digital Accelerator Hosted by Natural Resources Canada (NRCan) NRCan's Digital Accelerator takes a hands-on-approach to AI/digital innovation. The mission of the Accelerator is to introduce and improve artificial intelligence-related capabilities at NRCan and explore new ways to incorporate AI/digital solutions and processes within the department's operations. During this session, we will share how we are advancing AI/digital transformation at NRCan and invite feedback about the projects and initiatives undertaken by the Digital Accelerator. Curtis McKinney , Manager and Strategy Lead, Digital Accelerator, Office of the Chief Scientist, NRCan Sanat Sethi , Technical Lead, Digital Accelerator, Office of the Chief Scientist, NRCan
	Room B Webcast access Sli.do event code: CBSA1	Data Engineering Challenges and Solutions: Demonstration of Shiny Hosted by Canada Border Services Agency (CBSA) This workshop overviews the challenges and solutions related to data engineering - the domain that deals with automation of data processing and analysis. In this workshop, you will learn more about the nature and challenges of data engineering, and will be able to experience some of data engineering challenges first-hand, and see how these challenges can be solved using modern data science tools such as R and RStudio, which are now supported by thousands of practitioners worldwide collectively calling themselves "data scientists" and "date engineers". The work on developing an R package and Shiny application to assist with data cleaning and linking will be presented. Dmitry Gorodnichy , Data Science Team, Chief Data Office, CBSA Moderated by: Sarah Mcculloch , Senior Analyst, Engagement and Enablement, Chief Data Office, CBSA
10:15 am – 10:30 am	Health break	

<p>10:30 am – 11:45 am</p>	<p>Room A</p> <p>Webcast access</p> <p>Sli.do event code: PHAC1</p>	<p>COVIDTrends and ArriveCAN: Digital Enablers Hosted by Public Health Agency of Canada (PHAC) With a focus on two data applications, this workshop will delve into how the pandemic has shaped the way we work with key partners, as well as the opportunities and challenges of creating public-facing digital applications.</p> <p>COVIDTrends is a digital tool that provides timely summary data about COVID-19 in a user's local public health region. PHAC's Data Hub has partnered with several internal programs and organizations to show how the pandemic is evolving in Canada. When a user searches by municipality (city, town) or by the first three characters of their postal code, a banner displaying local case, mobility and syndromic data will appear with a web link to their local public health region.</p> <p>Nicole Saba, Director, PHAC Rafael Barros, Senior Policy Analyst, PHAC</p> <p>ArriveCAN was developed by the Canada Border Services Agency (CBSA) and PHAC to enable all incoming travellers to Canada to submit mandatory information quickly, easily and securely in order to meet requirements for entry. The development of the application has enabled rapid data sharing across provinces and territories. ArriveCAN can be accessed using a mobile device or a computer. There are mandatory requirements for incoming travellers to use ArriveCAN to submit information before and after their entry to Canada.</p> <p>Antonio Utano, Executive Director, CBSA Chulaka Ailapperuma, Policy Analyst, CBSA Laura Corbett, Analyst, PHAC Athintra Sethurajan, Senior Analyst, PHAC Moderated by: Derek Carson, Director, Centre for Data Management, Innovation and Analytics PHAC</p>
	<p>Room B</p> <p>Webcast access</p> <p>Sli.do event code: PCO1</p>	<p>The Government of Canada Data Ecosystem Hosted by the Privy Council Office, Results and Delivery Unit (PCO-RDU) This interactive workshop will feed into a PCO-RDU project for developing a holistic high-level view of the Government of Canada (GC) data ecosystem. The GC data ecosystem is complex and most are only aware of small cuts of the whole system. This session would allow participants to put their pieces of the picture together. The output will be the first step to developing a common frame of reference, which provides essential context for decision-making and action to advance the government's overall data maturity.</p> <p>Thomas Kearney, PCO-RDU Interactive session will have additional PCO volunteers to run breakout rooms Moderated by: Alison Kinsman, PCO-RDU</p>
	<p>Health break</p>	

1:00 pm – 2:15 pm	<p>Room A</p> <p>Webcast access</p> <p>Sli.do event code: STC1</p>	<p>How Data is Helping to Reshape Regional Immigration – A Deep Dive into the Longitudinal Immigration Database (IMDB) Hosted by Statistics Canada, Diversity and Sociocultural Statistics (DSS)</p> <p>The IMDB is a comprehensive annual administrative data source that connects immigration records of Immigration, Refugees and Citizenship Canada (IRCC) with tax records, and allows for the study of the economic outcomes of permanent and non-permanent resident cohorts across nearly 40 years. In recent years, new data tables and interactive tools have been released, which has supported the development of regional immigration programs. This workshop will be in two parts: First, it will provide an overview of the IMDB, its analytical tools, and some examples of how to unlock the analytical capacity of the IMDB. The second part will focus on how data has helped shift Canada's economic immigration landscape with programs that are more regionally-focused, improving their ability to respond to the unique demographic and labour market challenges experienced in different regions of the country.</p> <p>Eric Mongrain, Senior Analyst, IMDB, DSS, Statistics Canada Sharmarke Musse, Policy Analyst, Regional Economic Programs and Policy, IRCC Moderated by: Rose Evra, Manager, IMDB, DSS, Statistics Canada</p>
	<p>Room B</p> <p>Webcast access</p> <p>Sli.do event code: STC3</p>	<p>Linkable Open Data Environment (LODE): Innovative Approaches for Data Collection, Integration and Visualization Hosted by Statistics Canada, Centre for Special Business Projects (CSBP)</p> <p>This interactive workshop will provide an overview of the LODE and demonstrate some of its open tools, with highlights of the full data workflow, from collection to release, including the data harmonization process. The showcased tools for the projects under development will include: visualization and use of LODE data; building height estimations from street-view images; leveraging cloud-based and open source solutions to compute high-resolution measures of geographic proximity.</p> <p>Julia Conzon, Robert Oikle, Marina Smailes, Joseph Kuchar, Ala'a Al-Habashna, Nick Newstead – Analysts, CSBP, Statistics Canada Moderated by: Bjenk Ellefsen, Chief, CSBP, Statistics Canada</p>
2:15 pm – 2:30 pm	Health break	
2:30 pm – 3:45 pm	<p>Room A</p> <p>Webcast access</p> <p>Sli.do event code: STC4</p>	<p>Advanced Analytics Workspace Hosted by Statistics Canada, Data Science Network (DSN)</p> <p>The Advanced Analytics Workspace (AAW) is a one-stop-shop for Data Science and Analytics, designed for data exploration, machine learning training/experimentation, and production model and dashboard serving. Built on open-source and open standards, the AAW super-charges the tools shared by the wider research community for fast, frictionless, and large-scale collaboration either within teams or with research partners. We will talk briefly about the high-level design (what tools we chose and why) before giving a demo of the platform. We will dive into a real user's experience, and show how the AAW makes analyses possible at a scale that was previously unattainable.</p> <p>Blair Drummond, Analyst, DSN, Statistics Canada Christian Ritter, Lead Data Scientist, DSN, Statistics Canada Brendan Gadd, Chief IT Architect, DSN, Statistics Canada Moderated by: Reginald Maltais, Manager, DSN, Statistics Canada</p>

<p>2:30 pm – 3:45 pm</p>	<p>Room B</p> <p><u>Webcast access</u></p> <p><u>Sli.do</u> event code: IRCC1</p>	<p>Using Power BI for Program Development: Understanding Clients' Behaviour and Data Visualization of Immigration Data Hosted by Immigration, Refugees and Citizenship Canada (IRCC), Client Experience Branch and Chief Data Officer Branch</p> <p>This workshop will demonstrate the utility of using Power BI in two areas relevant for immigration policy/program development and open the floor for a discussion of lessons that can be applied more broadly to other datasets. One component of this workshop will focus on how Power BI can be used in an interactive way to understand client journey and what data lessons are learned along the way. In the past, the Client Experience Branch (CEB) and its partners used static tools such as Excel and PowerPoint to determine when clients in various lines of business contact IRCC. Although these tools are useful, they made it hard to keep the products evergreen. The workshop will delve into how CEB revitalized one of the previous client contact maps in Power BI with a focus on sustainability to track client behaviour and support client-centric decision-making.</p> <p>Another component of this workshop will highlight the data visualization project that IRCC's Chief Data Officer Branch (CDO) is implementing to leverage the full potential of data visualization with Power BI as a way of utilizing infographics and business intelligence tools in data storytelling for policy and program development. This session will demonstrate a data visualization report created with Power BI, followed by Q&A to further explore the potential of visualized data reporting.</p> <p>Laaraib Khattak, Analyst, CEB, IRCC Justine Baron, Analyst, CEB, IRCC Zhining Qi, A/Assistant Director, CDO, IRCC Greg Philps, Power BI Expert, CDO, IRCC</p>
<p>3:45 pm – 5:00 pm</p>	<p>Room A</p> <p><u>Webcast access</u></p> <p><u>Sli.do</u> event code: GAC1</p>	<p>Online Hate and Disinformation in the Context of COVID-19 Hosted by Global Affairs Canada (GAC), Digital Inclusion Lab</p> <p>In this workshop, GAC's Digital Inclusion Lab will demonstrate the methods, tools and results that the Lab is using to examine online hate in relation to the pandemic. The presentations and follow-up discussion will focus on a mixed-methods approach using primary English language qualitative and quantitative data analyses, content analysis, and supplementary secondary resources to map out and analyze discourse across social media platforms and in a real-time repository of hate speech.</p> <p>Priya Kumar, Analyst, Digital Inclusion Lab, GAC Adnan Raja, Analyst, Digital Inclusion Lab, GAC</p>

Tuesday, February 23, from 9:00 am to 5:00 pm ET

CONCURRENT WORKSHOPS		
9:00 am – 10:15 am	Room A Webcast access Sli.do event code: NRCan2	Designing Visual Briefings for your Executives Hosted by Natural Resources Canada (NRCan) <p>This workshop will offer attendees a series of steps to follow, and principles to apply in order to achieve visual briefings of data for executives. It also will provide tools that can be used to plan visual briefings while showcasing good and bad examples of data visualization and dashboards to help the attendees best position data visualizations for their unique contexts. This is an interactive session for anyone who prepares data visualizations, dashboards, placemats, and/or decks for executives.</p> <p>Alain Grignon, Senior Data Strategist, Strategic Policy Branch, NRCan</p>
	Room B Webcast access Sli.do event code: TC1	Answering Policy Questions with Machine Learning: A Case Study on Border Crossing Calculation Using Big Data Co-Hosted by Transport Canada and Dataperformers <p>This workshop will highlight a use case at Transport Canada for an interactive discussion on how Artificial Intelligence can be applied on big data to clarify key public policy questions. The use case will be a due diligence research to understand if weather has an impact on the border-crossing data collected from vehicles. The methodology is to use the pings sent from the trucks as the main proxy for measuring the crossing time, and set up a deep learning algorithm to examine if there is any pattern showing weather impacts on the ping frequency of trucks. The discussion following the use case will focus on how similar initiatives can be implemented in other policy domains.</p> <p>Aires Wang, Project Manager, Dataperformers, Artificial Intelligence Emad Takla, Data Scientist, Dataperformers, Artificial Intelligence Matthew Lesniak, Engineering Project Officer, Transportation and Economic Analysis, Policy Group, Transport Canada Moderated by: Louis-Paul Tardif, Director, Transport Canada and Amine Ben Ayed, Chief Operating Officer, Dataperformers</p>
10:15 am – 10:30 am	Health break	

10:30 am – 11:45 am	Room A <u>Webcast access</u> Login to Wooclap.com Enter the code: DLFWS1A	Tools for the Talent Management of Data Scientists Hosted by Statistics Canada, Data Science Network Interested in the various roles a data scientist can fill in an organization? Wondering what the required competencies are for various levels of data scientists? Curious how this overlaps with the competencies you already have in the organization? Come see the roles defined in other organizations and help us fill the gaps in competency profiles for data scientists across the Government of Canada to be able to attract and retain the best talent. Yanick Beaucage , Assistant Director, Data Science Division, Statistics Canada Vicki Desjardins , HR Business Partner, Statistics Canada Anabela Nunes , HR Business Partner, Statistics Canada Carol Lane , Senior Project Manager, Digital Change, Treasury Board of Canada Secretariat Moderated by: Reginald Maltais , Manager, Data Science Network, Statistics Canada
	Room B <u>Webcast access</u> Sli.do event code: ESDC1	Machine Learning Applications for Evaluation and Analytics – Case Studies for Program Impact Evaluations and Text Analytics in Records of Employment Hosted by Employment and Social Development Canada (ESDC) This workshop will feature machine learning (ML) applications in two parts and facilitate a conversation on the broader use of ML in areas of impact evaluations and text analytics. The first part will demonstrate ML for program evaluations and show how ESDC is leveraging administrative data and recent developments in ML to better inform policy development through impact evaluations. The presentation will illustrate the implementation of causal ML algorithms to estimate individualized treatment effects, thereby learning what works for whom. This endeavour is fully aligned with the Government of Canada's commitment to implement a GBA+ lens in evaluation work, ensuring that differential impacts on people of various sociodemographic backgrounds are considered in policy and program development. Andy Handouyahia , Manager, Strategic and Service Policy Branch, Evaluation Directorate, ESDC Leeroy Rikhi (Tristan) , Evaluation Officer, Strategic and Service Policy Branch, Evaluation Directorate, ESDC The second part of the workshop will provide a concrete and timely example of ML in action: the ROE comments project that automates the review of the ROE text comment field and updates other fields in the ROE with the appropriate information using a ML algorithm. The presentation will address the potential of turning ROE processing to an automated pipeline instead of requiring manual review by agents, allowing the agents to focus on other processing tasks. Chelsea Ernhofer , Data Scientist, Strategic and Service Policy Branch, Chief Data Office, ESDC Marie-Pier Schinck , Data Scientist, Strategic and Service Policy Branch, Chief Data Office, ESDC
11:45 am – 1:00 pm	Health break	

1:00 pm – 2:15 pm	Room A Webcast access Sli.do event code: STC5	Social Inclusion Data Visualization Tool Hosted by Statistics Canada, Diversity and Sociocultural Statistics (DSS) This workshop will provide an overview of a proposed conceptual framework to measure and track social inclusion in Canada and showcase a social inclusion data visualization tool. This social inclusion dashboard is being developed to inform evidence-based policies by disseminating disaggregated data that provides insights into the experiences of diverse population groups, many of whom have intersecting identities. Workshop attendees will learn about a set of indicators to measure social inclusion, the experimental and innovative approaches Statistics Canada is adopting to meet the nation's data needs, and the journey to create the right method to communicate these insights to Canadians. Filsan Hujaleh , Analyst, Health, Justice, Diversity and Populations, DSS, Statistics Canada Dennis Huynh , Data Analyst Intern, Strategic Data Management, Methods and Analysis, Innovation Secretariat, Statistics Canada Moderated by: Natalka Patsiurko , Analyst, Health, Justice, Diversity and Populations, DSS, Statistics Canada
	Room B Webcast access Sli.do event code: TBS1	Demonstration of Data Tools – R Hosted by the Treasury Board of Canada Secretariat, Internal Audit and Evaluation Bureau This workshop aims to share some work in R, including the process of data integration, statistical methodologies and visualization options. Twenty-five years after its creation as a free and open-source software, R ranks 9th in overall programming languages in terms of popularity and it is increasingly being used by both the internal audit and evaluation communities to support their work. Join us for an interactive session delving into the ability of R to produce high quality graphs, including static, dynamic and interactive graphics. Byron O'Byrne , Head of Data, Asia Pacific Branch, Global Affairs Canada Wan-Chen Lee , Advisor, Internal Audit and Evaluation Bureau, Treasury Board of Canada Secretariat
2:15 pm – 2:30 pm	Health break	

2:30 pm – 3:45 pm	<p>Room A</p> <p><u>Webcast access</u></p> <p><u>Sli.do</u> event code: IRCC2</p>	<p>Text Analytics with Machine Learning – Operation Syrian Refugees Memory Project Hosted by Immigration, Refugees and Citizenship Canada, Operations Planning and Performance Branch (IRCC-OPPB)</p> <p>We present a Text Analytics approach and some techniques, developed and used by the Advanced Analytics Solutions Centre (A2SC) at IRCC, to analyze and classify hundreds of thousands documents of various types. We show how Natural Language Processing (NLP), combined with Sets operations, can be used to identify near duplicates and to re-establish broken email conversations.</p> <p>Wassim El-Kas, Assistant Director, Advanced Analytics Solutions Centre, IRCC-OPPB Moderated by: Joanne Yoon, Senior Data Scientist, Data Science Division, Statistics Canada</p>
	<p>Room B</p> <p><u>Webcast access</u></p> <p><u>Sli.do</u> event code: TBS2</p>	<p>Data: An Essential Element of Experimentation Hosted by Treasury Board of Canada Secretariat (TBS)</p> <p>This workshop is on the uses of data in experimental research in the public service. The workshop will present best practices on data collection, management and analysis and will include examples from departmental experiments underway as part of the second cohort of Experimentation Works (EW). EW is a scalable initiative designed to build the capacity of the public service to experiment through a learning-by-doing model that supports and showcases a variety of experiments in the open. The practical section of the workshop will explore key steps and practices of data collection at the experimental design stage through examples.</p> <p>Nick Chesterley, Director, Strategic Policy, Priorities and Planning, TBS Pierre-Olivier Bédard, Senior advisor, Strategic Policy, Priorities and Planning, TBS Alana Couvrette, Research analyst, Strategic Policy, Priorities and Planning, TBS Haris Khan, Senior Advisor, Behavioural Insights and Policy Lead, Behavioural Insights and Policy, Office of the Chief Human Resources Officer, TBS Jesse Howell, Experimentation Advisor, Experimentation and Design Centre of Expertise, Digital Design Branch, Innovation, Science and Economic Development Canada</p>
3:45 pm – 5:00 pm	<p>Room A</p> <p><u>Webcast access</u></p> <p><u>Sli.do</u> event code: CSPS1</p>	<p>Data Literacy Initiatives in Government of Canada Co-hosted by Canada School of Public Service (CSPS), Digital Academy and Statistics Canada</p> <p>This interactive workshop is an opportunity to learn and share about initiatives underway to assess, measure and improve data literacy across the Government of Canada, including the latest on data training, organizational data literacy assessment tools and enterprise-wide data communities.</p> <p>Mackenzie Kitchen, Product Owner, Digital Academy, CSPS Claudia Sanmartin, Director, Strategic Analysis, Publications and Training Division, Statistics Canada</p>

Closing Remarks

Sebastien Fleurant, Director, Immigration, Refugees and Citizenship Canada